

BATURICHEVA, Z.B.; GUREVICH, N.Yu.; TSIRLIN, Yu.A.; KOSTENKO, N.S.

Thermoluminescence of NaI (Tl) crystals. Ukr. fiz. zhur. 10  
no.3:348-350 Mr '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov,  
Khar'kov.

L 3353-66 EWT(1)/EPA(s)-2/EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD/JG/GG  
ACCESSION NR: AP5013481 UR/0185/65/010/005/0570/0571  
*44,55*

AUTHOR: Baturicheva, Z. B.; Hurevych, N. Yu.; Tsyrlin, Yu. A. *44,55* *63*  
*8*

TITLE: The effect of ionic processes on the thermal destruction of capture centers  
in NaI(Tl)

SOURCE: Ukrayins'kyy fizichnyy zhurnal, v. 10, no. 5, 1965, 570-571

TOPIC TAGS: sodium chloride, radiative capture, ionic crystal *21,44,55*

ABSTRACT: The authors studied the effect of ionic processes on the thermal stability of F-capture centers in NaI(Tl) crystals treated with x-rays at room temperature (50 kv, 10 ma, exposure 1 year). By assuming an ionic mechanism in the destruction of F-capture centers, values were obtained for the activation energy of structure-sensitive conductivity which are in good agreement with experimental results. It is concluded that the thermal destruction of F-capture centers is basically the result of ionic processes in the case of higher-than-room temperatures. Orig. art. has: 2 figures, 5 equations.

ASSOCIATION: VNDI Monokrystaliv m. Kharkov (VNDI of Monocrystals) *44,55*  
SUBMITTED: 13Jan65 ENCL: 01 SUB CODE: SS.  
NO REF Sov: 002 OTHER: 002

Card 1/2

L 3353-66

ACCESSION NR: AP5013461

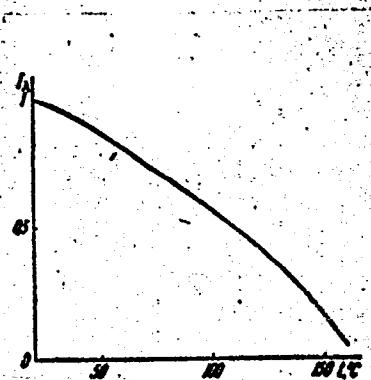


Fig. 1. Thermo-optical luminescence induced in the F-band of crystals of NaI(Tl) irradiated with x-rays at room temperature.

Card 2/2

DP

ENCLOSURE: 01

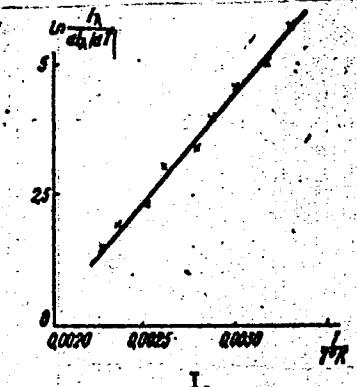


Fig. 2.  $\ln \frac{I_\lambda}{dI_\lambda/dT}$  as a function of inverse temperature: ( $I_\lambda$  is the rate of optical luminescence;  $T$  is the absolute temperature).

L 64742-65 EWT(1)/T IJP(c) GS  
ACCESSION NR: AP5015446

UR/0185/65/010/006/0686/0587

AUTHORS: Baturicheva, Z.B.; Hurevych, N.Yu.; Tsyrlin, Yu.A.

TITLE: The effect of prior illumination with light on the scintillation characteristics of NaI(Tl) crystals

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 6, 1965, 686-687

TOPIC TAGS: scintillation detector, single crystal, sodium compound, telluride, thermoluminescence

ABSTRACT: The scintillation characteristics of standard single crystals of NaI(Tl) were investigated at room temperature with an AI-100 multichannel pulse-height analyzer and an FEP-13 photovoltaic multiplier. Cs<sup>137</sup> served as the gamma source. The thermoluminescence was measured with 10 x 2 mm crystals. The rate of heating was 0.8 deg/sec. The illumination with sunlight was measured with a lux meter. The x-ray exposure was 1 hour at 50 kV and 10 mA.

Card 1/2

L 64742-65

ACCESSION NR: AP5015446

The light yield was found to recuperate as  $1 - \exp(-t/\tau)$ ,  $\tau$  being 16 hours for sunlight and 6 min for x-rays and gamma rays. By measuring the thermoluminescence obtained from excitation by sunlight and x-rays, it was found that the thermoluminescence peak on illumination with x-rays occurred at about 70°C and corresponded to the excitation of capture centers with lifetimes of about 6 min, while the peak for sunlight occurred at about 120°C and corresponded to excitation of thallium capture centers with lifetimes of about 16 hours. Orig. art. has: 3 figures.

ASSOCIATION: VNDI monokristaliv, Kharkiv [VNII monokristalov, Khar'kov]  
(All-Union Scientific Research Institute for Single Crystals)

SUBMITTED: 13Jan65

ENCL: 00

SUB CODE: SS, OP

NR REF Sov: 002

OTHER: 000

Card 2/2

L 22893-65 EWT(m)/EPF(o)/EPP(n)-2 Pr-4/Pu-4 GG

ACCESSION NR: AP5003035

8/0051/65/018/001/G139/0141

AUTHOR: Baturicheva, Z. B.; Gurevich, N. Yu.; Tsirlin, Yu. A.

TITLE: On the influence of prior <sup>19</sup>irradiation on the scintillation properties of NaI(Tl) crystals B

SOURCE: Optika i spektroskopiya, v. 18, no. 1, 1965, 139-141

TOPIC TAGS: scintillator, scintillating crystal, scintillator light yield, scintillator resolution, scintillator inertia

ABSTRACT: To ascertain the possibility of reducing the temporary deterioration of scintillation counters with NaI(Tl) crystals when exposed to ionizing radiation of large intensity, the authors have made a detailed study of the kinetics of these processes. Standard NaI(Tl) single crystals with thallium concentration 0.07% wt. were investigated. The light yield and the energy resolution were measured with a 100-channel pulse height analyzer and a photomultiplier. The gamma-ray source was Cs<sup>137</sup> with activity of 10 mCi. The prior excitation of the crystals was produced either by x-ray exposure or by gamma rays from a Co<sup>60</sup> source with activity 50 mCi for a day. The results have shown that prior exposure to

Cord 1/2

L 22893-65

ACCESSION NR: AP5003035

x-rays or gamma rays leads to a decrease in the light yield and to an increase in the resolution. The natural resolution of the crystal increases simultaneously. An analysis of the results gives grounds for assuming that prior excitation of the crystal by ionizing radiation of large intensity leads to formation of thallium capture centers, so that the number of  $Tl^+$  ions responsible for the stationary luminescence is reduced, thereby decreasing the light yield. After the excitation is stopped, the light sums stored by the thallium centers are radiated, and this is accompanied by recovery of the  $Tl^+$  luminescence centers and by re-establishment of the light yield. The increase in the natural resolution of the crystal is possibly connected with the uneven distribution of the thallium capture centers over the volume of the crystal. This may be due in turn to uneven distribution of thermal micro defects in the lattice and their competition with the thallium centers in the capture of the elementary excitations. Orig. art. han: 3 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 06Jan64

ENCL: 00

SUB CODE: NP, OP

NR REF Sov: 001

OTHER: 000

Card 2/2

L 5449-66 EWT(1)/EPA(s)-2/EWT(m)/T/EWP(t)/EWP(b)  
ACCESSION NR: AP5019757

IJP(c) JG/JD/GG  
UR/0051/65/019/002/0242/0246  
44,55 535.373.1

AUTHOR: Baturicheva, Zn. P.; Gurevich, N. Yu.; Tsirlin, Yu. A. 44,55 57  
TITLE: Concerning some trapping centers in NaI(Tl) crystals B  
SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 242-246  
TOPIC TAGS: sodium compound, scintillator, thermoluminescence, crystal defect,  
electron trapping, x ray irradiation, light absorption

ABSTRACT: The authors studied thermoluminescence and thermo-optical luminescence and induced absorption in x-irradiated NaI(Tl) crystals for the purpose of determining the nature and concentrations of the defects which serve as traps for electrons and holes, thereby affecting adversely the scintillation properties of the NaI(Tl). The investigated microcrystals were grown by the Stockbarger method, with Tl concentrations  $10^{-5}$ – $10^{-1}$  wt.%. Platelets of NaI(Tl) measuring  $1 \times 10 \times 10$  mm were then cleaved and plastically deformed in a cryostat, in which all the optical measurements were carried out. The measurement procedure and equipment are described in some detail. The measurements indicate that x-irradiation of NaI(Tl) crystals containing ~0.1 wt.% Tl at room temperature reduces the absorption of the dual Tl centers, thus leading to the production of dual trapping centers. Similar

Card 1/2

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L 5449-66

ACCESSION NR: AP5019757

O  
trapping centers are produced by thermal microdefects in the lattice. It is shown by comparison of the dependence of the thermoluminescence and thermo-optical luminescence on the time, the stress, and the temperature that the two types of traps compete in the capture of electrons at temperatures higher than room temperature, and this competition can account for some features of the behavior of the luminescence in x-irradiated NaI(Tl). Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 06 Jan 64

ENCL: 00

SUB CODE: SS, OP

NR REF Sov: 005

OTHER: 004

Card 2/2 *kld*

BATURIN, A., vospitatel'

Ants are friends of the forest. IUn. nat. no.8:25 Ag '58.

(MIRA 11:9)

l.Pionerskiy lager' "Mosenergostroya."  
(Ants)

BATURIN, A.

Scheduled delivery of small-size freight. Avt. transp. 43 no.2;  
9-10 F '65. (MIRA 18:6)

1. Glavvolgovyatskstroy.

BATURIN, A.

The aggressors are looking for trouble. Komm. Vooruzh. Sil  
46 no.19:80-84 O '65.  
(MIRA 18:12)

BATURIN, A.A.

BATURIN, A.A.

Effect of electric current on changes in the quantity of mobile ions  
in soil [with summary in English]. Pochvovedenie no.9:105-111 S '57.  
(MIRA 10:12)

1. Dagestanskiy sel'skokhozyaystvennyy institut.  
(Soils--Analysis) (Electrolysis)

BATURIN, Andrey Alekseyevich; KORNILOV, Yuriy Emanuilovich; LARICHEV,  
v.r., red.; RAKOV, S.I., tekhn.red.

[Facts against lies; a pamphlet] Fakty protiv lzhi; pamphlet.  
Moskva, Izd-vo VTeSPS Profizdat, 1959. 69 p. (MIRA 12:12)  
(Russia--Economic conditions)

BATURIN, A.Y., inzhener.

Drying a transformer with zero sequence current. Elek.sta. 24 no.8155 Ag '53.  
(MLRA 6:8)  
(Electric transformers)

BATURIN, A.M., insh.

Contact vibration in relays of the ET series in the case of a non-sinusoidal current. Elek. sta. 29 no. 7:88-89 Jl '58. (NIRA 11:10)  
(Electric relays--Vibration)

L 12632-6 SIT(m)/EPF(c) Pr-4 BM

ACCESSION NR: AR4044048

8/0058/63/000/011/E006/E006

SOURCE: Ref. zh. Fizika, Abs. 11E44

AUTHOR: Baturin, A. N.

TITLE: The permittivity and properties of the system dioxane-water

CITED SOURCE: Nauchn. zap. Dnepropetr. un-t, v. 77, 1962, 170-175

TOPIC TAGS: permittivity, dioxane water system, dioxane water

TRANSLATION: There is designed a device for measuring the permittivity according to type II of the Drude method. Measurements are made of the permittivities of a mixture of dioxane and water at frequencies for which the influence of electrical conductivity is not manifested. There is calculated the energy of intermolecular interaction of the mixture dioxane-water. An assumption is made on the possibility of determining the azeotropic composition from the curve "intermolecular interaction-composition".

SUB CODE: GC

ENCL: 00

Card 1/1

KURATOVA, T.S.; TERESHKEVICH, M.O.; SKARRE, O.K.; BATURIN, A.N.

Ability of oxygen atoms of bromates in mixed solvents.  
Zhur. fiz. khim. 38 no.6:1535-1538 Je '64.

(MIRA 18:3)

1. Dnepropetrovskiy gosudarstvennyy universitet.

BATURIN, A.S.

Planned precautionary repairs in the machinery industry.  
Mashinostreitel' no.1:43 Ja '62. (MIRA 15:1)  
(Industrial equipment—Maintenance and repair)

BATURIN, A.S.

Automatic well logging station with ratiometer potentiometer. Mash. i  
neft. obor. no.7:15-20 '63. (MIRA 17:1)

1. Mytishchinskiy priborostritel'nyy zavod.

*BATURIN*

BATURIN, A. T.

Soprotivlenie materialov; dlja tekhnikumov. Izd. 2., perer.  
Dopushcheno v kachestve ucheb. posobiia dlja tekhnikumov. Moskva,  
Gostekhizdat, 1949. 252 p., diagrs.

Title tr.: Strength of materials. Approved as a textbook for  
technical schools.

TA405.B3 1949

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

DETALI MASHIN (Machine Parts) Moskva, Mashgiz, 1952-

V. Illus., Diagrs., Tables. Lib. Nos: 1952

LEADER

N/5

741

.B3

1954

1957

BATURIN, A.T., [author]; ZABLONSKIY, K.I., kandidat tekhnicheskikh nauk, dotsent;  
PONOMARYAKOV, S.N., dotsent [reviewers].

"Machine parts." A.T.Baturin. Reviewed by K.I.Zablonskii, S.N.Pozdnyakov.  
Vest.mash. 33 no.7:106-108 Jl '53. (MLRA 6:8)

1. Odesskiy politekhnicheskiy institut (for Zablonskiy). 2. Moskovskoye  
vyscheye tekhnicheskoye uchlishche im. Baumena (for Pozdnyakov).  
(Mechanical engineering) (Baturin, A.T.)

BATURIN, A.T.; ITSKOVICH, G.M., inzhener, nauchnyy redaktor; GLINER, B.M.,  
inzhener, redaktor; KARGANOV, V.G., inzhener, redaktor graficheskikh  
rabot; MODEL', B.I., tekhnicheskiy redaktor

[Machine parts] Detali mashin, Izd. 2-e perer. Moskva, Gos. nauchno-  
tekhn. izd-vo mashinostroit. lit-ry, 1954. 423 p. (MIRA 7:8)  
(Machinery--Construction)

BATURIN, Aleksandr Timofeyevich [deceased]; ITSKOVICH, G.M., inzhener,  
nauchnyy red.; KARGAMOV, V.G., inzhener, red.graficheskikh rabot;  
UVAROVA, A.F., tekhn.red.

[Machine parts] Detali mashin. Izd. 3-e, perer. Moskva, Gos.  
nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 423 p. (MIRA 10:12)  
(Machinery)

BATURIN, Aleksandr Timofeyevich[deceased]

[Machine parts] Mashina detallari. Toshkent, "Ukituvchi"  
Nashrieti, 1964. 462 p. [In Uzbek] (MIRA 18:3)

L 44355-66 EWT(d)/EWP(k)/EWP(h)/EWP(v)/EWP(l)

ACC NR: AP6013483

(N)

SOURCE CODE: UR/0182/65/000/012/0028/0031

AUTHOR: Baturin, A. I.29  
B

ORG: none

TITLE: Modernization of a tube press of the horizontal hydraulic type

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 12, 1965, 28-31

TOPIC TAGS: metal press, metal pres-ing, metallurgic research, metalworking machine accessory

ABSTRACT: The article deals principally with measures to modernize the slide-return mechanism of presses of this type, as based on operating experience. Thus, the insertion of a chevron-type packing can prevent the eventual fracture of copper lining and the concomitant formation of a leak in the return slide cylinder. It is also established that the use of high pressure in small-diameter cylinders (die and valve drives, etc.) i.e. wherever considerable force is not required, affects adversely the performance of the press by wearing out the cylinder packings and surfaces. This may be offset by powering these press accessories with pneumatic drive (air pressure 3-5 kg/cm<sup>2</sup>), which is readily available in virtually every

Card 1/2

UDC: 621.975.82.004.69

L 44356-36

ACC NR: AP6013483

industrial shop. Other useful innovations include a mechanism for inserting the ingot into the die assembly and an automatic device for the cutting of tubes in the course of their pressing. Orig. art. has: 7 figures.

SUB CODE: 13, 11/ SUBM DATE: none/

Card 2/2 hs

L 41133-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/EWP(l)/EWP(v)/EWP(t)/ETI IJP(c) HW/JD  
ACC NR: AP6025581 SOURCE CODE: UR/0413/66/000/013/0010/0010

INVENTOR: Rozanov, B. V.; Baturin, A. I.

34B

ORG: none

TITLE: A die for extruding shapes and tubes. Class 7, No. 183170

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,  
no. 13, 1966, 10

TOPIC TAGS: Extrusion, hot extrusion, cold extrusion, combined  
extrusion, shape extrusion, tube extrusion die

ABSTRACT: This Author Certificate introduces a die for extruding shapes  
and tubes (see Fig. 1). In order to combine hot and cold extrusion in one  
step and thus increase the output, the die consists of two parts with  
thermal insulation between them. The part adjoining the container

Card 1/2

UDC: 621.777.073

L 05710-67 EWP(k)/EWT(j)/EWT(m)/EWP(h)/EWP(v)/EWP(t)/~~EWP(t)~~ IJP(c) JN/JD/bw  
ACC NR: AP6029651 SOURCE CODE: UR/0182/66/000/008/0005/0009

AUTHOR: Baturin, A. I.

ORG: none

TITLE: Extrusion of aluminum alloys through a water-cooled die

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 8, 1966, 5-9

TOPIC TAGS: metal extrusion, extrusion die, water cooled die, aluminum alloy extrusion

ABSTRACT: A method of extruding aluminum alloy through a water-cooled die has been developed and introduced in industry. Production-scale tests were carried out in a 1500-ton press equipped with a water-cooled die through which D16 and AMg6 aluminum-alloy tubes, 33–53 mm in outside diameter with a wall thickness of 3–10 mm, were extruded from 156mm x 64 mm x 340 mm ingots. It was established that the use of a water-cooled die made it possible to increase the extrusion rate from 2.56–3.3 m/min to 3.6–5.0 m/min without a significant increase of extrusion force. The water flow should not start until 0.5–1.2 mm of the tube has cleared the die, and then the water should be fed in cycles. The cooling has no negative effect on structure, mechanical properties and corrosion resistance of either extruded or extruded and cold-rolled tubes. The surface quality of tubes extruded through the water-cooled die is somewhat better than that of conventionally extruded tubes because the metal does not stick to the die. Orig. art. has: 6 figures and 1 table. [TD]

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG:REF: 003/ OTH REF: 001/ ~~OTH REF: 001~~ PACXP: 5848  
Card 1/1 *me* UDC: 621.774.38

BATURIN, A.V.

The BD 7, 25-2-type vacuum filter for filtering yeast fluid.  
Biul.tekh.-ekon.inform. no.11:59-60 '59. (MIRA 13:4)  
(Filters and filtration) (Yeast)

BATURIN, Dmitriy Pavlovich; IGOLKIN, N.V., kand.ekonom.nauk, red.;  
MAL'CHIKOVA, V.K., red.; ONOSHKO, N.G., tekhn.red.

[Wages on state farms] Oplata truda rabochikh sovkhoza,  
Pod obshchel red. N.V.Igolkina. Leningrad, Lenizdat, 1961.  
46 p. (MIRA 14:4)  
(Leningrad Province--Agricultural wages)

BATURIN, G.I.

SOV/137-58-8 17128

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 8, p 132 (USSR)

AUTHORS: Berezkin, P.N., Baturin, G.I.

TITLE: On the Problem of Specialization of Electrode Fabrication (K voprosu spetsializatsii elektrodnogo proizvodstva)

PERIODICAL: Tekhn.-ekon. byul. Sov. nar. kh.-va Chelyab. ekon. administrat. r-na, 1957, Nr 2, pp 48-51

ABSTRACT: Arc welding (W) accounts for approximately 70-80% of all welding processes the greater part of it being in the category of manual W. The Chelyabinsk economic rayon produces 20,000 tons of electrodes (E) of 140 different types annually. E with ionizing coatings constitute approximately 4% of the total production. The production of E is organized at almost all machine-building plants of the area. Five plants employ pressure-sheathing methods to apply the coating onto the E. Procedures for manufacture of E and processing of coating components have been mechanized at the Metalware-metallurgical plant in Magnitogorsk (MMZ). Up to 55% of the total E production are shipped to plants of other areas of the national economy. The following measures are recommended in order

Card 1/2

SOV/137-58-17128

On the Problem of Specialization of Electrode Fabrication

to increase the production of the E: 1) Expansion of the production of E of the E42 type, grades OMM-5 and TsM7, being manufactured at the MMMZ; 2) organization of production of E of the type E50, E-50A, EA1, etc. in the shops of the Chelyabinsk tractor plant; 3) closing of the majority of plant shops as unprofitable and incapable of producing high-quality E; 4) organization of engineering procedures for processing of components employed in E coatings from the waste and dust of mines, quarries, and plants which are engaged in the production and preparation of these components; 5) unification of the E and reduction of their type list to a smaller number of highly efficient and time-tested types.

N.T.

1. Arc welding—Electrodes    2. Electrodes--  
Production

Card 2/2

KOCHENOV, A.V.; BATURIN, G.N.; KOVALEVA, S.A.; YEMEL'YANOV, Ye.M.;  
SHIMKUS, K.M.

Uranium and organic matter in the sediments of the Black and  
Mediterranean Seas. Geokhimiia no.3:302-313 Mr '65. (MIRA 18:7)

L 14705-66 EWT(1)/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) IJP(c) JN/WW/JG/GW  
ACC NR: AP6004394 (N) SOURCE CODE: UR/0020/66/166/003/0698/0700

AUTHOR: Baturin, G. N.; Kochenov, A. V.; Kovaleva, S. A.

45

B

ORG: none

TITLE: Some aspects of the distribution of uranium in Black Sea waters

SOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 598-700

TOPIC TAGS: uranium, sea water, geochemistry, oceanography

ABSTRACT: During the 16th voyage of the scientific-research ship "Mikhail Lomonosov" in August-September 1964, the authors took 46 samples at various depths of the waters of the Black Sea at 16 different stations, including 15 samples of the bottom layer. According to the determinations, the uranium content of the Black Sea waters (except the bottom layer) ranges from  $2 \cdot 10^{-6}$  to  $4 \cdot 10^{-6}$  g/l, the average being  $2.8 \times 10^{-6}$  g/l. The uranium content of the bottom layer is much lower, frequently dropping to  $n \times 10^{-7}$  g/l. This is attributed to the removal of uranium by adsorption on the sediments. One of the major factors in the adsorption of uranium by the sediments is thought to be the presence in the latter of organic matter whose parti-

UDC: 551.464.679.1

Card 1/2

Z

L 14705-66  
ACC NR: AP6004394

cles can occlude this metal while it is still precipitating in the mass of the water as a result of its reaction with hydrogen sulfide contaminating the water. The paper was presented by Academician N. M. Strakhov on 4 August 1965. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 08/ SUBM DATE: 15Apr65/ ORIG REF: 006/ OTH REF: 002

Card 2/2 *SC*

TIKHONOV, Sergey Alekseyevich, nauchn. sotr.; IZMODOV, Yuryi  
Alekseyevich, nauchn. sotr.; BATURIN, I., red.

[Ultrasonics at Crimean plants] Ul'trazvuk na pred-  
priatiiakh Kryma. Simferopol', Krym 1964. 37 p.  
(MIRA 18:1)

YASHCHENKO, A.; BATURIN, I., red.; SEBKO, G., red.

[Wonderful land of the Ukraine] Ukrayny chudovskyi krai.  
Simferopol', Vyd-vo "Krym," 1964. 215 p. (MIRA 17:12)

IZMODENOV, Yuriy Alekseyevich, inzh.-fizik; BATURIN, I., red.

[A new magnetic filter] Novyi magnitnyi fil'tr. Simferopol', Izd-vo "Krym," 1964. 28 p. (MIRA 18:1)

PASHUTA, Nikolay Timofeyevich, inzh; VASIL'YEV, I., red.; BATURIN, I.,  
red.

[Rivals of metals] Soperniki metallov. Simferopol',  
"Krym," 1965. 52 p. (MIRA 18:12)

BATURIN, K.A., Cand Bio Sci --(diss) " Interoceptive influences from the stomach <sup>up</sup> ~~on~~ the chronaxy of the skeletal musculature <sup>during</sup> ~~in~~ experimental neurosis in dogs." Minsk, 1958 14 pp (Acad Sci BSSR, Inst of Biology) 100 copies (KL, 24-58, 117)

BATURIN, K.A. [Baturyn, K.A.]

~~Interoceptive influences from the stomach on the chronaxy of skeletal muscles during functional disorders in the higher nervous activity of dogs. Vestsi AN BSSR Ser. biol. nauch. no.1:102-109 '58.~~ (MIRA 11:5)

(HRONAXIA) (STOMACH--INNERVATION) (MUSCLES)

BULYGIN, I.A.; BATURIN, K.A.

Interoceptive influence of the small intestine on the healing rate  
of skin wounds in white rats. Dokl.AN BSSR 4 no.10:438-440 '60.  
(MIRA 13:9)

1. Institut fiziologii AN BSSR.

(INTESTINES--INNERVATION)

(WOUNDS)

BULYGIN, I.A.; BATURIN, K.A.; ZAPOROZHETS, A.A.

Interoceptive bioelectric cortical reactions before and after section  
of the spinal cord. Fiziol. zhur. 51 no.8;926-935 Ag '65. (MIRA 18:7)

1. Institut fisiologii AN BSSR, Minsk.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6

BATURIN, L.A., inzh.

Use of doubled reactors and transformers with split windings.  
Elek sta. 35 no.10:49-54 0'64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6"

BATURIN, N.

Economic relations between the U.S.S.R. and the German Democratic Republic become stronger [with English summary in appendix].

Vnesh.torg. 30 no.11:16-18 '60. (MIRA 13:11)

(Russia--Commerce--East, Germany)

(Germany, East--Commerce--Russia)

BATURIN, B.

Provocative act of Bonn. Vnesh. torg. 30 no.12:26-27 '60.  
(MIEA 13:12)

(Germany, West--Commerce--Germany, East)  
(Germany, East--Commerce--Germany, West)

POPOV, N.N.; BUTORIN, N.A.; CHISTOVA, V.V., red.; SHLENSKAYA, V., red.;  
LAGUTINA, I.M., tekhn.red.

[The German Democratic Republic; economy and foreign trade]  
Germanskaya Demokratische Respublika; ekonomika i vnesh-  
niaia torgovlia. Moskva, Vneshtorgizdat, 1959. 246 p.

(Germany, East—Economic conditions)  
(Germany, East—Commerce)

(MIRA 13:2)

ZUBRIKOVA, O.I.; BATURIN, N.F. (Leningrad)

School competition for the best solution of mathematical problems. Mat. v shkole no.3:79-80 My-Je '62. (MIRA 15:7)  
(Mathematics—Problems, exercises, etc.)

BATURIN, O.

Moving coal loader hoppers without taking them apart. Mast.ugl.5  
no.2:6-7 F '56. (MLRA 9:6)  
(Strip mining--Equipment and supplies) (Hoppers)

BATURIN, P.

Daringness. Sov.shakht. 11 no.11:4-5 N '62. (MIRA 15:11)  
(Coal mines and mining) (Efficiency, Industrial)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6

BATURIN, S.

Improve the system of intracity settlements. Den. i kred. 16  
no. 11:45-49 N '58. (MIRA 11:12)  
(Essentuki District--Payment)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6"

BATURIN, S.; YEFIMOV, L.

Analytical work of the State Bank branches. Den. i kred. 20  
no.4:39-48 Ap '62. (MIRA 15:4)  
(Banks and banking) (Auditing) (Industrial management)

BUZUNOV, I.A., dots.; GRIBANOV, I.I., dots.; IVANOV, A.I., prof.  
[deceased]; MASLOV, N.I., dots.; RACHINSKIY, A.A., dots.;  
TROITSKIY, A.A., dots.; TROITSKIY, A.V., prof.; KHORST, G.O.,  
dots.; BEN'YAMINOVICH, E.M., retsenzent; KRITSKIY, V.M.,  
retsenzent; POYARKOV, V.F., retsenzent; BATURIN, S.I., spets.  
red.; TIKHONOVA, I., red.; BAKHTIYAROV, A., tekhn. red.

[Manual for hydraulic and irrigation engineers] Spravochnik  
gidrotekhnika-irrigatora. [By] I.A. Busunov i dr. Tashkent,  
Gosizdat UzSSR. Pt.1. 1962. 442 p. (MIRA 16:7)  
(Hydraulic engineering) (Irrigation)

Sov/100-58-6-1/11

AUTHOR: Baturin, S.S., Engineer, Deputy Minister for Building in BSSR

TITLE: Objectives of Further Development in the Building Programme in Belorussia ( Zadachi dal'neyshego razvitiya stroitel'stva v Belorussii )

PERIODICAL: Mekhanizatsiya Stroitel' stva, 1958, No.6, USSR, Pp 3-5.

ABSTRACT: The output in the building industry in the last few years of various materials has lead to a reduction in the cost of building generally. The capacity of the plants for precast reinforced concrete products reached 84,000m<sup>3</sup> in 1954. This increased in 1958 to 282,000m<sup>3</sup>. The use of prestressed reinforced concrete constructions increased 5.7 times between 1956 and 1957. In 1956 building organisations were fitted out with the following machinery:- hydraulic jacks; pumping stations; stands SM-535 concreting combines and stands for reinforcement. The reorganisation of the building undertakings was carried out in 1957 and 1958. In 1954 building organisations possessed 62 excavators with a total bucket capacity of 26m<sup>3</sup>. This number increased in 1957 to 214 excavators. This same increase was observed with tower cranes of which there were 78 in 1954 and 264 in 1957. Approximately 280,000 - 300,000 m<sup>2</sup> of partition slabs are now produced per annum.

Card 1/2

Sov/100-58-6-1/11

**Objectives of Further Development in the Building Programme in Belorussia;**

It is intended to introduce Engineer N.Ya Kozlov's method of casting panels. The Vitebsk building organisation produced in 1958 210,000m<sup>2</sup> of wood fibre slabs from waste material. The mechanisation of excavating works increased from 85% in 1955 to 87.9% in 1957 and assembly works from 86% to 95% in the same period. It is intended to build between 1956 and 1960 two plants for the manufacture of large panels for housing purposes and this output will represent 160,000m<sup>2</sup> of habitable floor area per year. There are two illustrations.

Card 2/2

1. Industrial plants-Construction--USSR
2. Housing projects--Construction--USSR
3. Reinforced concrete--Applications

VERZHEBITSKIY, N.D.; YANKOVSKIY, I.P.; ZAYKOVSKIY, I.M.; BATURIN, S.S.,  
red.; KASHTANOV, F., red.; KALCHITS, G., tekhn.red.

[Suggestions for greater efficiency made by White Russian  
builders] Ratsionalizatorskie predlozheniya stroitelei Belo-  
russii. Minsk, Gos.izd-vo BSSR, 1959. 142 p. (MIRA 13:4)

1. White Russia. Ministerstvo stroitel'stva. 2. Zamestitel'  
ministra stroitel'stva BSSR (for Baturin).  
(Building--Technological innovations)

BATURIN, S.S.

Prestressed reinforced concrete in the construction of the White  
Russian S.S.R. Bet. i zhel.-bet. no.8;343-345 Ag '60.  
(MIRA 13:8)

(White Russia—Prestressed concrete)

KUNTSEVICH, I.P., kand. tekhn. nauk; SIMONYAN, A.A., kand. tekhn. nauk;  
BATURIN, T.F., inzh.

Garden and park machinery and devices. Nov. tekhn. zhil.-kom. khos.:  
Blagoustr. gor. [no.1]:12-25 '61. (MIRA 18:5)

BATURIN, T.F., inzh.

Mechanizing the cleaning of pits in city storm-sewer systems.  
Nov. tekhn.-kom.khoz.: Blagoustr.gor.no. 2:27-35 '62.  
(MIRA 17:6)

BATURIN, T.F.

Ways to improve the theoretical design and construction of city  
snowplows. Nauch. trudy AKKH no.32:28-47 '64.

(MIRA 19:1)

BELODVOROV VULIV Maksimovich; BATURIN, T.K., nauchn. red.;  
MITROFANOVA, G.M., ved. red.

[Gas leakage, its causes and elimination] Utechki gaza, ikh  
prichiny i ustranenie. Leningrad, Nedra, 1965. 149 p.  
(MIRA 18:4)

USSR / General and Special Zoology. Insects. Harmful P  
Insects and Arachnids. Pests of Fruit and Berry  
Cultures.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64092.

Author : Baturin, V.; Abdullayev, S.; Zakhryapina, T.  
Title : Spraying of the Gardens During the Vegetation  
of Plants with Carbolinum Against Fruit Mites.

Orig Pub: Sots. s.-kh. Azerbaydzhana, 1957, No 7, 47-49.

Abstract: Two apple-tree sections - of six hectares each  
- were sprayed on 18 July with a 0.2% suspension  
of DDT dust, to which on one section 0.25% car-  
bolincum was added; the liquid outlay on both  
sections was 2400 l/ha. According to a compu-  
tation, made on 21 July, the mites of the first  
variation were multiplying and their numbers in-

Card 1/2

62

USSR / General and Special Zoology. Insects. Harmful P  
Insects and Arachnids. Posts of Fruit and Berry  
Cultures.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64092.

Abstract: creased. In the second variation, the numbers  
of the mites in Kandil'sinap decreased by one-  
half due to the destruction of the adult mites,  
and in Sary-tursh they decreased by two thirds  
due to the destruction of the adults and larvae.  
The eggs of the mites were not destroyed. Gar-  
den spraying in the summer with a mixture of  
0.2% DDT dust and 0.25% carbolinum is recommen-  
ded. -- A. P. Adrianov.

SHEYNDLIN, A.Ye.; ASINOVSKIY, E.I.; BATURIN, V.A.; BATENIN, V.M.

Apparatus for producing plasma and studying its properties.  
Zhur. tekhn. fiz. 33 no.10:1169-1172 O '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur,  
Moskva.

KHRAPOV, A. Ya.; BEDAREV, V.I.; BATURIN, V.G.

Spectral determination of magnesium in cast irons. Zav. lab.  
30 no.6:706 '64  
(MIRA 17:8)

BATURIN, Vasiliy Iosifovich, prof., doktor tekhn.nauk; BERSHADSKIY,  
Leonid Samoilovich, inzh.. Prinimal uchastye SHENFIL', M.B..  
VARENTSOV, V.S., red.; BORUNOV, N.I., tekhn.red.

[Organization and planning of the construction of peat enterprises]  
Organizatsiya i planirovaniye stroitel'stva torfopredpriatii. Moscow,  
Gos.energ.izd-vo, 1959. 303 p. (MIRA 13:3)  
(Peat industry)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6

BATURIN, V.P.

(Deceased)

c. '54

Geolo<sup>gm</sup>

See ILC

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6"

BATURIN, V. V. and KUCHERUK, V. V. ID NUMBER 941546

Ventilyatsiya mashinostroitel'nykh zavodov. Moscow, 1951. 391p.

A reference manual for engineers and technical workers dealing with the mounting and exploitation of ventilation machinery. Part I discusses design and fundamentals of ventilation and part 2 machine construction plants, including forge shops, foundries etc; published as a Govt Edition of Scientific-Technical "Machine Construction Literature.

BATURIN, V.V.; EL'TERMAN, V.M.; TURKUS, V.A., redaktor.

[Ventilation of industrial buildings] Aeratsiya promyshlennyykh zdanii.  
[Nauch. redaktor V.A.Turkus] Moskva, Gos. izd-vo lit-ry po stroitel'stvu  
i arkhitekture, 1953. 259 p. (MLRA 6:10)  
(Factories--Heating and ventilation)

BATURIN, V.V.

POLYAKOV, D.L., inzhener, redaktor; BATURIN, V.V., kandidat tekhnicheskikh nauk, redaktor; BORISOV, V.P., inzhener, redaktor; GOVOROV, V.P., inzhener, redaktor; MATS, Ya.M., inzhener, redaktor; RYVKIN, Kh.I., kandidat tekhnicheskikh nauk, redaktor; TURKUS, V.A., dotsent, redaktor; KORSAKOV, S.S., retsenzent; UFRIMTSEV, G.N., retsenzent.

[Manual for planning heating and ventilation systems of industrial enterprises] Spravochnik po proektirovaniu otoplennia i ventiliatsii promyshlennykh predpriiatii. [Redkollegija D.L. Poliakov i dr. Redaktor V.A. Turkus] Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953-  
(MIRA 7:6)

1. Leningrad, Proyektnyy institut ministerstva stroitel'stva.  
(Heating—Handbooks, manuals, etc.) (Ventilation—Handbooks, manuals, etc.)

BATURIN, V.V.

TALIYEV, V.N.; BATURIN, V.V., kandidat tekhnicheskikh nauk, nauchnyy  
redaktor; GOLOBEMKOVA, L.A., redaktor; MEDVEDEV, L.Ya., tekhniches-  
kiy redaktor

[Aerodynamics of ventilation] Aerodinamika ventilatsii. Moskva,  
Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 287 p.  
(Aerodynamics) (Ventilation) (MIRA 8:3)

BATURIN, V.V.; KUCHERUK, V.V.; SHCHEGLOV, V.P., retsentent, kandidat tekhnicheskikh nauk; RYSIN, S.A., redaktor, kandidat tekhnicheskikh nauk; POPOVA, S.M., tekhnicheskiy redaktor.

[Ventilation of machine-building factories] Ventiliatsiya mashinostroitel'nykh zavodov. Izd.2-e perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 482 p. (MIRA 7:12)  
(Factories--Heating and ventilation) (Machinery industry)

BATURN, V.V.

BATURN, V.V.--"Fundamentals of Industrial Ventilation." Cand Tech Sci,  
Moscow Order of the Labor Red Banner Construction Engineering Inst imeni  
V.V. Kuybyshev, 26 Jan 54. (Verchernyaya Moskva, 15 Jan 54)

SO: Sum 168, 22 July 1954

ANDREYEV, Petr Ivanovich; RATHIRIN, V.Y., kandidat tekhnicheskikh nauk,  
redaktor; GUSEV, Yu.L., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy  
redaktor

[Distribution of heat and moisture in factory buildings] Rasprostra-  
nenie tepla i vлаги в технических промышленных предприятиях. Москва,  
Гос. изд-во лит-ры по строит. и архитектуре, 1955. 157 p.  
(Factories--Heating and ventilation) (MIRA 8:4)

GLUSHKOV, Leonid Aleksandrovich; BATURIN, V.V., doktor tekhnicheskikh nauk, retsentent; BUTAKOV, S.Ye., professor doktor tekhnicheskikh nauk, redaktor; LUCHKO, Yu.V., redaktor izdatel'stva; KOVALENKO, N.I., tekhnicheskiy redaktor

[Ventilation in crushing and grinding shops] Ventiliatsiya drobil'no-rasmol'nykh otdelenii. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1956. 89 p.  
(MIRA 9:7)

(Factories--Heating and ventilation)  
(Ore dressing)

BATURIN, V.V., doktor tekhnicheskikh nauk

Industrial ventilation of today [with summary in English]. Gig.  
1 san. 23 no.1:10-21 Ja '58. (MIRA 11:2)

1. Iz Instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta  
profsoyuzov.

(VENTILATION  
in indust.)  
(INDUSTRIAL HYGIENE  
ventilation)

BATURIN, Vladimir Vasil'yevich, prof., doktor tekhn.nauk; REMP'YEV, B.V.,  
inzh., retsenzent; TURKUS, V.A., dotsent, retsenzent [deceased];  
BROMLEY, M.F., kand.tekhn.nauk, nauchnyy red.; SMIRNOVA, A.P.,  
red.izd-va; MEDVEDEV, L.Ya., tekhn.red.; STEPANOVA, N.S., tekhn.red.

[Heating, ventilation, and gas supply] Otoplenie, ventilatsiya i  
gazosнabzhenie. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i  
stroit.materialam. Pt.2. [Ventilation] Ventiliatsiya. 1959.  
287 p. (MIRA 12:10)

(Ventilation)

BATURIN, V.V., professzor, a muszaki tudomanyok doktora

The present state of science and the prospects of its development  
in the field of industrial ventilation. Munkavedelem 6 no.10/12:  
367 '60.

1. Szakszervezetek Osszszovetszegi Tanacsnak Osszszovetszegi Kozponti  
Munkavedelmi Tudomanyos Kutato Intezete aerodinamikai laboratorium  
vezetöje, Moszkva.

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHOV, G.G.; VAYNGAUZ, L.G.;  
VILENSKIY, Ye.Ya.; GAMEBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIS,  
Ye.Ye.; KUZNETSOVA, Z.I.; KOP'YEV, S.F.; LIVCHAK, I.F.;  
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; PIRUMOV, A.I.;  
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,  
S.P.; TALIYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;  
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;  
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.  
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.  
red.

[Present level and prospects for the development of sanitary  
engineering and the production of sanitary engineering equip-  
ment] Sovremennyi uroven' i perspektivy razvitiia sanitarnoi  
tekhniki i proizvodstva sanitarno-tehnicheskogo oborudova-  
nia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut  
sanitarnoy tekhniki.

(SANITARY ENGINEERING)

GLUSHKOV, Leonid Aleksandrovich; BATURIN, V.V., retsenzent; LITKENS,  
V.A., retsenzent; KATS, T.A., red.; KRYZHOVA, M.L., red.  
izd-va; KOROL', V.P., tekhn. red.

[Protection from overheating in the hot shops of metallurgical  
plants] Zashchita ot peregrevov v goriachikh tsekhakh metallur-  
gicheskikh zavodov. Moskva, Metallurgizdat, 1963. 213 p.  
(MIRA 16:9)

(Metalworkers--Diseases and hygiene)

(Heat--Physiological effect)

(Metallurgical plants--Heating and ventilation)

BATURIN, Vladimir Vasil'yevich; EL'TERMAN, Viktor Mikhaylovich;  
SMIRNOVA, A.P., red.izd-va; SHERSTNEVA, N.V., tekhn.red.

[Ventilation of industrial buildings] Aeratsiya promysh-  
lennykh zdanii. Izd.2., ispr. i dop. Moskva, Gosstroj-  
izdat, 1963. 319 p. (MIRA 17:1)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6

BATURIN, V., starshiy inzh.

Automatic X-ray examination. Grazhd.av. 20 no.11:28 N '63.  
(MIRA 17:2)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6"

BATURIN, V.V., *glav. red.*; BRYUKHANOV, V.N., *red.*; TSIKKEL', L.M., *red.*; VOSKRESENSKIY, Ye.N., *red.*; IL'INA, N.S., *red.*; LEONOV, B.N., *red.*; LUNGERSGAUZEN, G.F., *red.*; MINSKAYA, V.M., *red.*; MORALEV, V.M., *red.*; RAKOVETS, O.A., *red.*

[Methods for the interpretation of the materials of aerial photography in geological studies; materials] Metody deshifrirovaniia aerofotomaterialov pri geologicheskikh issledovaniyakh; materialy. Glav. red. V.V.Baturin, V.N. Briukhanov, L.M.Tsikkel'. Moskva, Izd-vo "Nedra," 1964. 150 p. (MIRA 17:7)

1. Vsesoyuznyy seminar po geologicheskому deshifrirovaniyu pri geologicheskikh issledovaniyakh, Moscow, 1961.

BATURIN, Vladimir Vasil'yevich; KUZNETSOVA, N.I., red.

[Principles of industrial ventilation] Osnovy promyshlennoi  
ventiliatsii. 3., dop. izd. Moskva, Profizdat, 1965. 608 p.  
(MIRA 18:4)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6

BATURIN, V.Ye. (Moskva)

Mysteries of the ruin relief. Priroda 54 no.7:72-74 Jl '65.  
(MIRA 18:7)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203930008-6"

BATURIN, Ye., inzh.

Cooling of drinking water in India. Zhil.-kom. khos. 12 no. 3:35  
Mr '62. (MIRA 15:10)

(India—Drinking water)

BATURIN, YE. B.

AID P - 291

Subject : USSR/Engineering

Card : 1/1

Author : Baturin, Ye. B.

Title : Formula for the determination of the area of the pumping station of the productional water supply for petroleum industry plants

Periodical : Neft. Khoz., v. 32, #4, 80-83, Ap 1954

Abstract : The author presents a graphical relation of average power of the pump to specific floor area and an analytical expression for major dimensions of the station with different pump arrangements.

Institution : None

Submitted : No date

BATURIN, Ye.B.

Concentrations of petroleum products in reverse water supply systems  
of petroleum refineries. Vod.i san.tekh. no.5:21-24 My '56.  
(Petroleum--Refining) (MIRA 9:9)

AUTHOR:

Baturin, Ye. B.

SOV-90-58-8-5/9

TITLE:

Determining the Specific Electric Energy Consumption for Supplying Water to the Installations of an Oil Refinery  
(Opredeleniye udel'nogo raskhoda elektroenergii na podachu vody k ustanovkam neftepererabatyvayushchego zavoda)

PERIODICAL:

*Energeticheskiy byulleten'*, 1958, Nr 8, pp 12 - 17 (USSR)

ABSTRACT:

Formulae relating the specific energy consumption to the water utilization factor for both direct flow, i.e., without repeated water utilization, and feedback systems are given. A modification of Formula 3 is worked out to cover the supply of hydrogen sulfide solution to the atmospheric vacuum pipe installations of a refinery. The formulae are then used to obtain data for a comparison of the two water-supply systems and, when presented in tabular form, show that the feedback system has a more efficient power consumption than the direct flow. Some ways of increasing the water utilization factor of the feedback system and there-

Card 1/2

SOV-90-58-8-5/9

Determining the Specific Electric Energy Consumption for Supplying Water  
to the Installations of an Oil Refinery

by lowering still further its specific power consumption  
are listed. There are 2 tables and 3 block diagrams.

1. Power supplies
2. Energy--Consumption

Card 2/2

BATURIN, Ye.B.

Industrial water supply in India. Vod.i san.tekh. no.2:  
36-39 F '60. (MIRA 13:5)  
(India--Water supply, Industrial)

BATURIN, Ye.B.

Reducing the construction costs of pumping stations in  
recirculated water-supply systems at enterprises of the  
petroleum industry. Vod.i san.tekh. no.7:5-6 Je '60.  
(MIRA 13:7)

(Pumping stations)

BATURIN, Ye.

Water supply for fire extinction in the industrial enterprises of  
India. Posh.delo 9 no.2:32, 3 of cover F '63. (MIRA 16:3)  
(India—Fire extinction—Water supply)

CASTING F.A.T.

Journal of the Iron and Steel  
Institute  
Vol. 176 Part 3  
Mar. 1954  
Foundry Practice

① met  
Centrifugal Castings of Piston Rings and Bearings. N. M. Baturin. (*Litcinos Prirgodstro*, 1953, 3, (3), 5-9). [In Russian]. The technique of centrifugal casting of piston rings and cylinder liners adopted at a Russian factory is outlined, and the factors influencing the properties of the products are considered. The wear resistance is related to the state of the graphite. Micrographs show the microstructures produced under various conditions. Chemical compositions and hardnesses of piston rings from various Russian and foreign works are compared; the composition recommended for centrifugal casting is C 3.2-4%, Si 1.5-1.7%, Mn 0.8-1.2%, P 0.4-0.6%, S 0.1%, Cr 0.15-0.3%, and Ni 0.2-0.4%.

BATURIN, E.M.

USSR/Miscellaneous - Foundry processes

Card 1/1 : Pub. 61 - 1/23

Authors : Baturin, E. M.

Title : High-speed assembly of casting forms

Periodical : Lit. proizv. 3, 1-3, May-June 1954

Abstract : A method for high-speed assembly of casting forms for the casting of metal parts and objects is described. The economical aspects of this new method are tabulated. Table; drawings; illustrations.

Institution : ...

Submitted : ...

BATURIN, Ye. M. (Egnr)

"Risers in Exothermic Heat Treatment."

All-Union Conference of Foundry Workers. end of 1957. Moscow.  
Mashinostroitel', 1958, No. 5, p. 48.

SOV/117-59-5-12/30

25(1)

AUTHORS:

Baturin, Ye.M., Bogachev, I.A., and Semenov, P.V., Engineers  
Exothermic Heating of the Lost Head on Castings

TITLE:

PERIODICAL:

ABSTRACT:

Information is given on the new method of keeping hot the lost head on castings in the casting process, by means of cores consisting of exothermic mix. The method was developed by the Vsesoyuznyy proyektno-tehnologicheskiy institut (VPTI) tyazhelogo mashinostroyeniya (All-Union Design and Technology Institute of Heavy Machine Building), in collaboration with the Novo-Kramatorskiy and the Elektrostal' Heavy Machine Building Plants. The material of the mix is: (in volume %) 1.45 of powder aluminum, 1.45 of 75-per cent ground ferrosilicon, 1.45 ground forging scale, 57.1 ground charcoal, 28.55 wood saw dust, 10.0 water glass of specific weight 1.45 and heavier, and 4.4 of water. The core-making technology is given. In use, the cores envelop the lost head, preventing dissipation of heat. The mix starts burning through the contact with liquid metal in the mold, and after combustion

Card 1/2

There  
graphs.

SOV/17-59-5-12/30

Exothermic Heating of the Lost Head on Castings

it forms a hot "jacket" around the lost head. The burning temperature of the mix is 2000°C. To slow down the combustion and lower the temperature, sand, or cement, or clay is added. The characteristic effect of the method is illustrated by 3 photographs of the lost head formed with the use of a mix including charcoal, coke instead of charcoal, and a carburizer. The shrinkage hole is on the top and well-concentrated; the internal shrinkage cavity is frequently absent. The VPTI has set up standards ("Normali") for the cores (Tables 1 and 2). The article includes calculation formulas and practical examples of calculating the lost heads, and the choice of suitable exothermic cora. The exothermic mix has reduced by 2 to 3 times the metal waste for lost heads. At the Novo-Kramatorskiy Elektrostal' plants, 430 kg per ton of steel castings is saved. The method is successfully used for castings up to 15 ton in weight. There are 2 diagrams, 1 graph, 4 tables, 2 photographs.

Card 2/2

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Bracings with a reinforced concrete slab. Transp. stroi. 13  
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(Precast concrete—Transportation)